AMSAT News Service Weekly Bulletins
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SB SAT @ AMSAT $ANS-256.01
STS-47/SAREX MISSION HAS BEGUN!

HR AMSAT NEWS SERVICE BULLETIN 256.01 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 12, 1992 BID:$ANS-256.01
TO ALL RADIO AMATEURS BT

STS-47/SAREX Mission Has a "Picture Perfect" Lift-Off!"

The space shuttle Endevour began its second flight today (12-SEP-1992) with a picture perfect lift-off at 14:22:59.974 UTC. This 6 day Shuttle Amateur Radio Experiment (SAREX) mission will provide earth-bound radio amateurs many opportunities to make 2M voice and packet radio contacts with Jay Apt (N5QWL) and Mamoru Mohri (7L2NJY). The packet station call sign will be W5RRR-1.

The following element set is the latest received for the STS-47 mission and should provide for accurate aquisition-of-signal (AOS) times.

STS-47
1 22120U 92 61 A 92256.84827988 .00035000 00000-0 26700-3 0 68
2 22120 57.0027 106.4342 0009709 280.5761 79.4195 15.89094234 59

Satellite: STS-47
Catalog number: 22120
Epoch time: 92256.84827988 -----> (12 SEP 92 20:21:31.38 UTC)
Element set: JSC-006
Inclination: 57.0027 deg
RA of node: 106.4342 deg Space Shuttle Flight STS-47
Eccentricity: .0009709 SGP4 Keplerian Elements
Arg of perigee: 280.5761 deg from NASA flight Day 1 vector
Mean anomaly: 79.4195 deg
Mean motion: 15.89094234 rev/day W5RRR
Decay rate: 3.5000e-04 rev/day*2 NASA Johnson Space Center
Epoch rev: 5

/EX
SB SAT @ AMSAT $ANS-256.02
STS-47/SAREX FREQUENCY GUIDE

HR AMSAT NEWS SERVICE BULLETIN 256.02 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 12, 1992 BID:$ANS-256.02
TO ALL RADIO AMATEURS BT

N5QWL Provides STS-47/SAREX Frequency Guide

STS-47 SAREX Operating Frequencies

Location	Shuttle's Downlink	User's Uplink
U.S., Africa	145.55 MHz	144.95 MHz
South America	145.55	144.97
and Asia;	145.55	144.91
	145.55<========Packet=========>	144.70
Europe	145.55 MHz	144.80 MHz
	145.55	144.75

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                        145.55<=======Packet==========> 144.70

                  Goddard Amateur Radio Club Operations  (WA3NAN)
                 (SAREX Information and Shuttle Audio Broadcasts)

                        3.860 MHz                         7.185 MHz
                        14.295 MHz                       21.395 MHz
                                                         28.395 MHz
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SAREX information also may be obtained from the Johnson Space Center computer bulletin board (JSC BBS), 8-N-1 1200 baud, at (713) 483-2500 and then type 62511. For those who have TVRO capability, the NASA Select television is available on Satcom F-2R, Transponder 13, located at 72 degrees west longitude; frequency 3960.0 MHz, audio 6.8 MHz.

[The AMSAT News Service (ANS) would like to thank N5QWL for this bulletin item. Please stay tunned for more more STS-47 SAREX information from the ANS.]

/EX
SB SAT @ AMSAT $ANS-256.03
AMSAT OPERATIONS NET SCHEDS

HR AMSAT NEWS SERVICE BULLETIN 256.03 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 12, 1992 BID: $ANS-256.03
TO ALL RADIO AMATEURS BT

AMSAT-NA Operations Net Schedule

AMSAT Operations Nets are planned for the following times. Mode B Nets are conducted on AO-13 on a downlink frequency of 145.950 MHz and the Mode J/L Nets on a downlink of 435.970 MHz.

Date	UTC	Mode	Phs	NCS	Alt
19-Sep-92	1830	B	71	WJ9F	VE2LVC
26-Sep-92	1445	B	162	VE2LVC	W9ODI
3-Oct-92	1830	B	162	N7NQM	W5IU

Any stations with information on current events would be most welcome. KITSAT-OSCAR-23 (KO-23) information is of particular interest at this time. In the unlikely event that either the Net Control Station or the alternate do not call on frequency, any participant is invited to act as the NCS.

Slow Scan Television on AO-13

SSTV sessions will be held on UTC Saturdays and Sundays. Mode J on a downlink of 435.980 MHz, and Mode B immediately after Mode J on 145.960 MHz. OPS NETS will take priority so look for SSTV activity immediately after they conclude.

/EX
SB SAT @ AMSAT $ANS-256.04
AO-13 TRANSPONDER SCHEDULES

HR AMSAT NEWS SERVICE BULLETIN 256.04 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 12, 1992 BID: $ANS-256.04
TO ALL RADIO AMATEURS BT

G3RUH Provides Current & Future AO-13 Operating Schedules

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 L G3RUH/DB2OS/VK5AGR  *** Future  AO-13 Transponder Schedule ***
 Mode-B  : MA   0 to MA  40 !     from  1992 Aug 17 - Sep 21
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 Mode-S  : MA  40 to MA  50 !<- S transponder; B trsp. is OFF!
 Mode-LS : MA  50 to MA  55 !<- S beacon + L transponder
 Mode-JL : MA  55 to MA  70 !   This schedule operates
 Mode-B  : MA  70 to MA 256 !   every orbit, every day.
 Omnis   : MA 160 to MA  10 !     Blon/Blat 150/0

Mode B users are reminded that at MA 40, the Mode B transponder will be
heard to go OFF with a click.  Although you will still hear the Mode B bea-
con, do not attempt to uplink as you will get no Mode B response; however,
you could interfere with Mode S.  Mode B returns at MA 70.

Note too that this schedule operates every orbit, every day.

 QST de G3RUH 1992 Sep 10.  Magnetorquing from attitude 150/0
 to 180/0 will commence on Sep 20 [Sun] 01:19 UTC, Orbit 3268,
 MA count 224, and will continue for 6 perigees.  Estimated interim
 attitudes are:

  Orbit Blon/Blat  Orbit Blon/Blat  Orbit Blon/Blat
  ---------------------------------------------------
   3268  147/-4    3269   154/-4    3270  160/-4
   3271  166/-4    3272   171/-2    3273  176/-1
   3274  181/0

Accuracy +/- 5 degrees

The new schedule will be uploaded during Mode L, Orbit 3272.  So 3272
(only) will contain two Mode J/L/S sessions: MA 40-70 and MA 130-160.

Magnetorquing is not an exact science, and there is always a possibility of
changes to the above plan and of unannounced interruptions to the schedule.

M G3RUH/DB2OS/VK5AGR  *** Future  AO-13 Transponder Schedule ***
Mode-B  : MA   0 to MA 130 !     from  1992 Sep 21 - Nov 23
Mode-S  : MA 130 to MA 140 !<- S transponder; B trsp. is OFF!
Mode-LS : MA 140 to MA 145 !<- S beacon + L transponder
Mode-JL : MA 145 to MA 160 !   This schedule operates
Mode-B  : MA 160 to MA 256 !   every orbit, every day.
Omnis   : MA 235 to MA  30 !     Blon/Blat 180/0

/EX
SB SAT @ AMSAT   $ANS-256.05
NEW AO-21/RUDAK-2 VOICE MESSAGE

HR AMSAT NEWS SERVICE BULLETIN 256.05 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 12, 1992  BID: $ANS-256.05
TO ALL RADIO AMATEURS BT


AMSAT-OSCAR-21/RUDAK-2: NEW VOICE MESSAGE
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RUDAK-2 onboard AO-21 is still running 6 Minutes FM-Repeater (DSP),
3 Minutes voice broadcast and 1 Minute PSK Telemetry (400 Bit/s).

A new voice message was uploaded on Saturday, September 13th with the following
contents:

  "This is AMSAT OSCAR-21. Greetings to the Russian-Denmark Expedition, which
   discovered the burial place of Vitus Bering and his team at the Commander
   Bay near Kamchatka."

(Voice borrowed from DB2OS)
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Last year the Russian-Denmark expedition (organized by the Adventure Club of Moscow) has discovered the burial place of the famous Danish explorer Vitus Bering (1682-1741) and his team (8 people) at the Commander Bay. This year the expedition continues its work.

For September 12-14th, a ceremony is planned for the re-burial of Vitus Bering. The Ambassador of Denmark in Moscow is attending this event, together with many journalists and accompanied by Leonid Labutin (UA3CR).

The Island is near Kamchatka, 56 degrees North and 166 degrees East.

Amateur Radio Station 4K4LC with Yuri (UW6LC) as the station operator is active from Bering Island presently and Leo Labutin will join him for a few days. They will also experiment from there with AO-21/RS-14 digi-voice reception and also will try to contact U6MIR in the MIR space station. The HF operating frequency is 14.195 MHz, and the HF station consists of a FT-747GX with 100W of RF output, the antenna is a Cushcraft 12-AVQ 3-band vertical. Please try contact him if you need this rare DX QSO.

[The AMSAT News Service (ANS) would like to thank Gerhard (DG2CV) and Peter (DB2OS) for this bulletin item.]

/EX
SB SAT @ AMSAT $ANS-256.06
AO-13 HELPS OAHU, HAWAII

HR AMSAT NEWS SERVICE BULLETIN 256.06 FROM AMSAT HQ
SILVER SPRING, MD SEPTEMBER 12, 1992 BID: $ANS-256.06
TO ALL RADIO AMATEURS BT

AO-13 Aids Communication With Hurricane Devastated Hawaii

WD4FAB from Maitland, Florida reported that at the conclusion of the Satellite Operations Net on AO-13, about 18:00 UTC Saturday, September 12, he was called by WH6IC in Kailua on the Island of Oahu. The operator, Steve, said that at his location on the opposite side of the island from Honolulu, the damage from Hurricane Iniki was considerable. He also added that on the island of Kauai, about 75 miles to the northwest of Oahu, that that island was in the direct path of the storm and the damage was there was likewise extensive. He added that communication with Kauai was difficult but that one amateur repeater was being used for that purpose.

WD4FAB noted that HF conditions were poor at the time, making the handling of traffic with Hawaii difficult at best, but that AO-13 was able to provide a usable circuit. He said that he had made a schedule with WH6IC for the following day in order to help with any storm related communications. Further, all AO-13 and OSCAR satellite users should be on the alert for QRP stations from from the Island of Kauai for emergency and health-and-welfare traffic.

[The AMSAT News Service (ANS) would like to thank Dick Jansson (WD4FAB) and Bill Tynan (W3XO) for this bulletin item.]

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